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SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

December 7, 1988

Contact: David L. Yowell
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INTERNATIONAL SEISMIC CREW COUNT

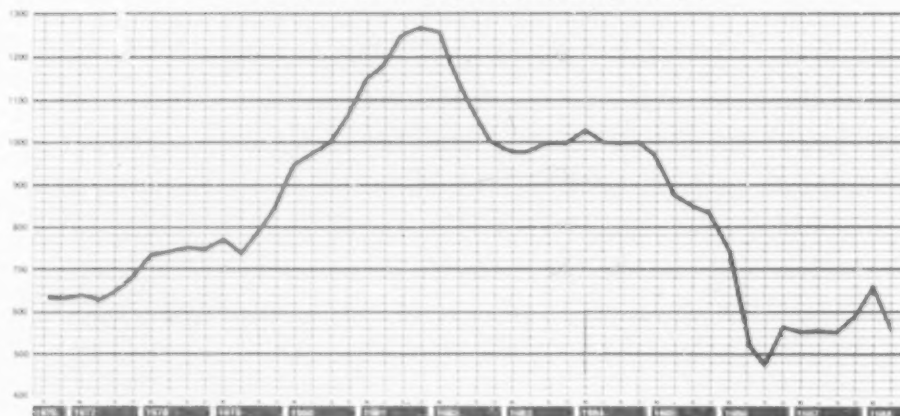
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL DECREASES DRAMATICALLY DURING THE SECOND QUARTER OF 1988

Seismic exploration for oil and gas decreased dramatically during the second quarter of 1988 with a total of 555 crews and vessels active. The number of land crews decreased by 105 from the March, 1988 total of 582, and the marine crew total increased by three for a net decrease of 102 from the March total of 657 crews and vessels active around the world. Increases were reported in Europe and the Middle East.

The international survey reflects data reported on seismic oil exploration activity by 94 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, JUNE, 1988

Geographically, seismic exploration for oil and gas during June, 1988 was reported as follows (First quarter, March, 1988 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
42 Contractors:	143 (150)	25 (25)	21 Contractors:	34 (118)	0 (0)
8 Oil Companies:	15 (15)	4 (4)	1 Oil Company	1 (2)	0 (0)
1 Government	0 (0)	1 (0)			
Totals:	158 (165)	30 (29)	Totals	35 (120)	0 (0)

(OVER)



MEXICO			CENTRAL & SOUTH AMERICA		
	Land	Marine		Land	Marine
3 Contractors:	16 (16)	0 (0)	6 Contractors:	36 (42)	4 (4)
1 Government:	5 (5)	0 (0)	4 Governments:	17 (15)	0 (0)
0 Oil Companies:	0 (0)	0 (0)	0 Oil Companies:	0 (0)	0 (0)
Totals:	21 (21)	0 (0)	Totals:	53 (57)	4 (4)

EUROPE			MIDDLE EAST		
	Land	Marine		Land	Marine
13 Contractors	33 (32)	29 (20)	7 Contractors:	32 (31)	1 (2)
1 Government:	1* (1)	0* (0)	3 Governments:	11* (8)	0* (0)
3 Oil Companies:	15 (15)	0 (0)	0 Oil Companies:	0 (0)	0 (0)
Totals:	49* (48)	29* (20)	Totals:	43* (39)	1* (2)

AFRICA			FAR EAST		
	Land	Marine		Land	Marine
8 Contractors:	26 (22)	4 (9)	10 Contractors:	36* (48)*	9* (6)*
2 Governments:	11* (11)*	0* (0)*	2 Governments:	45* (51)	1* (5)
0 Oil Companies:	0 (0)	0 (0)	0 Oil Companies:	0 (0)	0 (0)
Totals:	37* (33)*	4* (9)*	Totals:	81* (99)*	10* (11)*

JUNE TOTALS:

	Land Crews	Marine Vessels
United States:	158 (165)	30 (29)
Canada:	35 (120)	0 (0)
Mexico:	21 (21)	0 (0)
Central & South America:	53 (57)	4 (4)
Europe:	49* (48)	29* (20)
Middle East:	43* (39)	1* (2)
Africa:	37* (33)*	4* (9)*
Far East:	81* (99)*	10* (11)*
Totals:	477* (582)*	78* (75)*
<u>Total Crews and Vessels:</u>	555* (657)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

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SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

February 10, 1989

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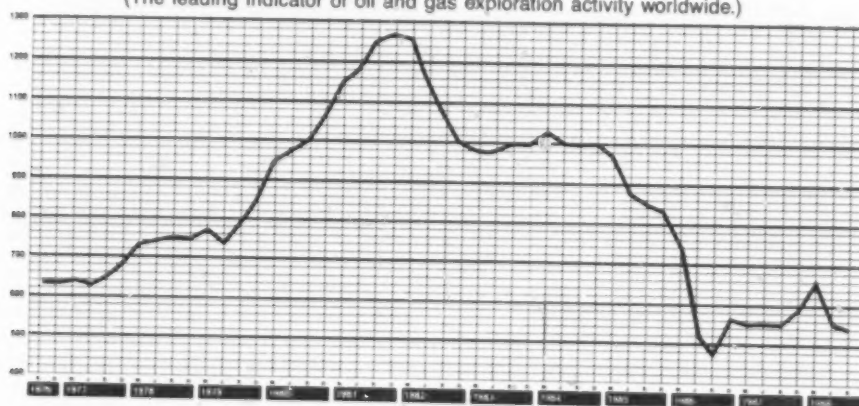
INTERNATIONAL SEISMIC CREW COUNT

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
CONTINUES TO DECREASE DURING THE THIRD QUARTER OF 1988

Seismic exploration for oil and gas continued its downward trend during the third quarter of 1988 with a total of 539 crews and vessels active. The number of land crews decreased by 21 from the June, 1988 total of 477, and the marine crew total increased by five for a net decrease of sixteen from the June total of 555 crews and vessels active around the world. Increases were reported in Canada, Europe and the Middle East. The significant decline in land crew activity in the Far East is seasonal and attributed to heavy rain in India.

The international survey reflects data reported on seismic oil exploration activity by 90 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, SEPTEMBER, 1988

Geographically, seismic exploration for oil and gas during September, 1988 was reported as follows (second quarter, June, 1988 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
37 Contractors:	136 (143)	25 (25)	26 Contractors:	51 (34)	3 (0)
8 Oil Companies:	15 (15)	4 (4)	1 Oil Company	2 (1)	0 (0)
1 Government	0 (0)	1 (1)			
Totals:	151 (158)	30 (30)	Totals	53 (35)	3 (0)

(OVER)



MEXICO			CENTRAL & SOUTH AMERICA		
	Land	Marine		Land	Marine
3 Contractors:	16 (16)	0 (0)	6 Contractors:	36 (36)	3 (4)
1 Government:	5 (5)	0 (0)	4 Governments:	17 (17)	1 (0)
0 Oil Companies:	0 (0)	0 (0)	0 Oil Companies:	0 (0)	0 (0)
Totals:	21 (21)	0 (0)	Totals:	53 (53)	4 (4)

EUROPE			MIDDLE EAST		
	Land	Marine		Land	Marine
13 Contractors	40* (33)	31* (29)	7 Contractors:	33 (32)	3 (1)
1 Government:	3 (1)*	0 (0)*	3 Governments:	11 (11)*	0 (0)*
3 Oil Companies:	14 (15)	1 (0)	0 Oil Companies:	0 (0)	0 (0)
Totals:	57* (49)*	32* (29)*	Totals:	44 (43)*	3 (1)*

AFRICA			FAR EAST		
	Land	Marine		Land	Marine
7 Contractors:	24 (26)	2 (4)	10 Contractors:	35* (36)*	9* (9)*
1 Government:	9 (11)*	0 (0)*	2 Governments:	9* (45)*	0* (1)*
0 Oil Companies:	0 (0)	0 (0)	0 Oil Companies:	0 (0)	0 (0)
Totals:	33 (37)*	2 (4)*	Totals:	44* (81)*	9* (10)*

SEPTEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	151 (158)	30 (30)
Canada:	53 (35)	3 (0)
Mexico:	21 (21)	0 (0)
Central & South America:	53 (53)	4 (4)
Europe:	57* (49)*	32* (29)*
Middle East:	44 (43)*	3 (1)*
Africa:	33 (37)*	2 (4)*
Far East:	44* (81)*	9* (10)*
Totals:	456* (477)*	83* (78)*
<u>Total Crews and Vessels:</u>	539* (555)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

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SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

April 17, 1989

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INTERNATIONAL SEISMIC CREW COUNT

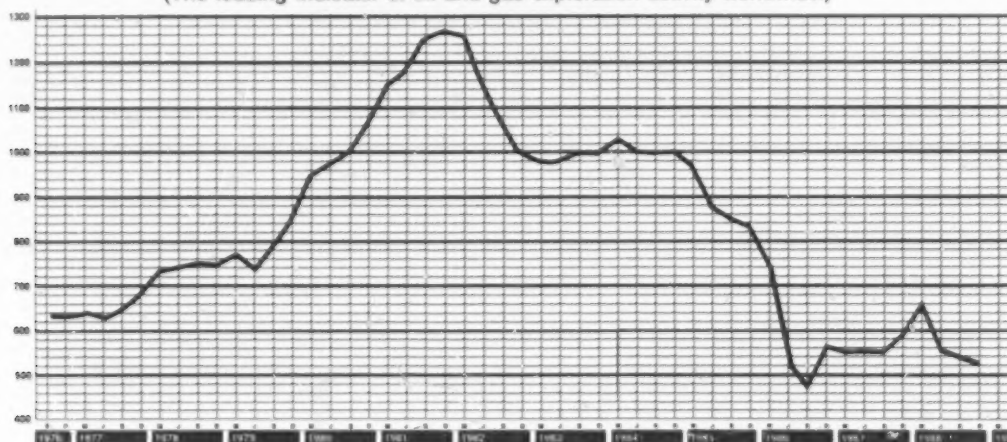
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
CONTINUES TO DECREASE DURING THE FOURTH QUARTER OF 1988

Seismic exploration for oil and gas continued its downward trend during the fourth quarter of 1988 with a total of 527 crews and vessels active. The number of land crews decreased by 7 from the September, 1988 total of 456, and the marine crew total decreased by five for a net decrease of twelve from the September total of 539 crews and vessels active around the world. Increases were reported in Canada, Mexico, Africa and the Far East.

The international survey reflects data reported on seismic oil exploration activity by 91 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, DECEMBER, 1988

Geographically, seismic exploration for oil and gas during December, 1988 was reported as follows (third quarter, September, 1988 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
31 Contractors:	100 (136)	24 (25)	32 Contractors:	67 (51)	0 (3)
7 Oil Companies:	14 (15)	3 (4)	1 Oil Company	2 (2)	0 (0)
1 Government	0 (0)	0 (1)			
Totals:	114 (151)	27 (30)	Totals	69 (53)	0 (3)

(OVER)



MEXICO			CENTRAL & SOUTH AMERICA		
	Land	Marine		Land	Marine
4 Contractors:	17 (16)	0 (0)	7 Contractors:	31 (36)	3 (3)
1 Government:	5 (5)	0 (0)	4 Governments:	17 (17)	1 (1)
0 Oil Companies:	0 (0)	0 (0)	0 Oil Companies:	0 (0)	0 (0)
Totals:	22 (21)	0 (0)	Totals:	48 (53)	4 (4)

EUROPE			MIDDLE EAST		
	Land	Marine		Land	Marine
11 Contractors	35 (40) *	20 (31) *	7 Contractors:	31 (33)	3 (3)
1 Government:	2 (3)	0 (0)	3 Governments:	9 (11)	0 (0)
3 Oil Companies:	4 (14)	1 (1)	0 Oil Companies:	0 (0)	0 (0)
Totals:	41 (57) *	21 (32) *	Totals:	40 (44)	3 (3)

AFRICA			FAR EAST		
	Land	Marine		Land	Marine
8 Contractors:	30 (24)	9 (2)	10 Contractors:	30 (35) *	12 (9) *
2 Government:	11 (9)	0 (0)	2 Governments:	41* (9) *	2* (0) *
0 Oil Companies:	0 (0)	0 (0)	1 Oil Company:	3 (0)	0 (0)
Totals:	41 (33)	9 (2)	Totals:	74* (44) *	14* (9) *

DECEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	114 (151)	27 (30)
Canada:	69 (53)	0 (3)
Mexico:	22 (21)	0 (0)
Central & South America:	48 (53)	4 (4)
Europe:	41 (57) *	21 (32) *
Middle East:	40 (44)	3 (3)
Africa:	41 (33)	9 (2)
Far East:	74* (44) *	14* (9) *
Totals:	449* (456) *	78* (83) *
<u>Total Crews and Vessels:</u>	527* (539) *	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

August 9, 1989

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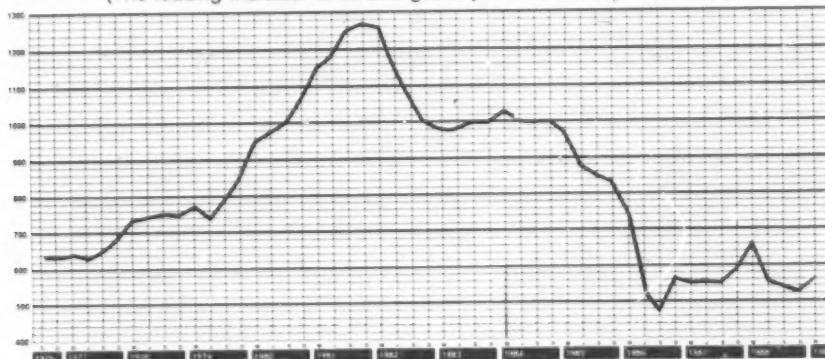
INTERNATIONAL SEISMIC CREW COUNT

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
SHOWS AN INCREASE DURING THE FIRST QUARTER OF 1989

Seismic exploration for oil and gas showed an increase during the first quarter of 1989 with a total of 563 crews and vessels active. The number of land crews increased by 37 from the December, 1988 total of 449, and the marine crew total decreased by one for a net increase of 36 crews from the December 1988 total of 527 crews and vessels active around the world. Increases were reported in Canada, Central & South America, Europe, Africa and the Far East.

The international survey reflects data reported on seismic oil exploration activity by 93 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, MARCH 1989

Geographically, seismic exploration for oil and gas during March 1989 was reported as follows (December, 1988 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
32 Contractors:	99 (100)	18 (24)	33 Contractors:	108 (67)	0 (0)
5 Oil Companies:	9 (14)	3 (3)	1 Oil Company	2 (2)	0 (0)
1 Government	0 (0)	0 (1)			
Totals:	108 (114)	21 (27)	Totals	110 (69)	0 (0)



	<u>MEXICO</u>	
	<u>Land</u>	<u>Marine</u>
4 Contractors:	15 (17)	0 (0)
1 Government:	5 (5)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	20 (22)	0 (0)

	<u>CENTRAL & SOUTH AMERICA</u>	
	<u>Land</u>	<u>Marine</u>
5 Contractors:	33 (31)	2 (3)
4 Governments:	17*(17)	1*(1)
1 Oil Company:	1 (0)	0 (0)
Totals:	51*(48)	3*(4)

	<u>EUROPE</u>	
	<u>Land</u>	<u>Marine</u>
13 Contractors	26*(35)	25*(20)
1 Government:	2 (2)	0 (0)
3 Oil Companies:	13 (4)	1 (1)
Totals:	41*(41)	26*(21)

	<u>MIDDLE EAST</u>	
	<u>Land</u>	<u>Marine</u>
6 Contractors:	31 (31)	2 (3)
2 Governments:	8*(9)	0*(0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	39*(40)	2*(3)

	<u>AFRICA</u>	
	<u>Land</u>	<u>Marine</u>
10 Contractors:	31 (30)	10 (9)
2 Governments:	10 (11)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	41 (41)	10 (9)

	<u>FAR EAST</u>	
	<u>Land</u>	<u>Marine</u>
9 Contractors:	31 (30)	12 (12)
2 Governments:	41*(41)*	2*(2)*
2 Oil Companies:	4 (3)	1 (0)
Totals:	76*(74)*	15*(14)*

MARCH TOTALS:

	<u>Land Crews</u>	<u>Marine Vessels</u>
United States:	108 (114)	21 (27)
Canada:	110 (69)	0 (0)
Mexico:	20 (22)	0 (0)
Central & South America:	51*(48)	3*(4)
Europe:	41*(41)	26*(21)
Middle East:	39*(40)	2*(3)
Africa:	41 (41)	10 (9)
Far East:	76*(74)*	15*(14)*
Totals:	486*(449)*	77*(78)*
Total Crews and Vessels:	563*(527)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.